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1: Int J Oncol. 2002 Feb;20(2):339-42.

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Human thrombospondin 2 inhibits proliferation of microvascular endothelial cells.

Tomii Y, Kamochi J, Yamazaki H, Sawa N, Tokunaga T, Ohnishi Y, Kijima H, Ueyama Y, Tamaoki N, Nakamura M.

Department of Pathology, Tokai University School of Medicine, Bohseidai, Isehara, Kanagawa 259-1193, Japan.

This study was performed to characterize human thrombospondin 2 (TSP2). TSP2 has recently attracted attention as an endogenous negative regulator of angiogenesis in tumorigenesis. We cloned and transfected human TSP2 cDNA into the human colon cancer cell line SW-480. Stable transfectants (TSP2-1, TSP2-6) overexpressing TSP2 were established. Growth characteristics of TSP2-transfectants were investigated in vitro and in vivo. TSP2-transfectants showed similar growth properties to vector-transfectants and wild-type SW-480 cells. The overexpression of transfected human TSP2 cDNA did not affect proliferation of SW-480 cells. When the conditioned media of TSP2-transfectants were added to cultures of bovine pulmonary microvascular endothelial cells (BPMEC), the BPMEC proliferation was significantly inhibited. These results suggested that human TSP2 is a potential inhibitor of angiogenesis.

PMID: 11788898 [PubMed - indexed for MEDLINE]

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